

PAT-NO: JP407256478A
DOCUMENT-IDENTIFIER: JP 07256478 A
TITLE: LASER BEAM WELDING HEAD
PUBN-DATE: October 9, 1995

INVENTOR-INFORMATION:

NAME	COUNTRY
GOUTINES, MARIUS JEAN-MARIE	N/A
LOREAU, JEAN-YVES	N/A
ZANOLIN, GERARD LOUIS	N/A

ASSIGNEE-INFORMATION:

NAME	COUNTRY
SOC NATL ETUD CONSTR MOT AVIAT <SNECMA>	N/A

APPL-NO: JP07028243

APPL-DATE: February 16, 1995

PRIORITY-DATA: 949401733 (February 16, 1994)

INT-CL (IPC): B23K026/06, B23K026/14

ABSTRACT:

PURPOSE: To provide a laser beam welding head responding to a prescribed important matter by eliminating a defect of a welding nozzle.

CONSTITUTION: This laser beam welding head is provided with a nozzle 10 having an extremely small outlet diameter (d), (d) is 2.5 mm in the case of a CO2 laser beam 6 having the focal distance of 150 mm, the nozzle 10 is provided with a conical inner surface 11, the half angle in the apex is 15 degrees in the case of the laser beam 6, the surface state being Ra 0.8 is also excellent, and an outlet zone is provided with a shelf part having the radius(r) nearly

equal to two times the nozzle outlet diameter(d).

COPYRIGHT: (C)1995,JPO